

## Gulf of Mexico Harmful Algal Bloom Bulletin

Region: AL/MS/FL

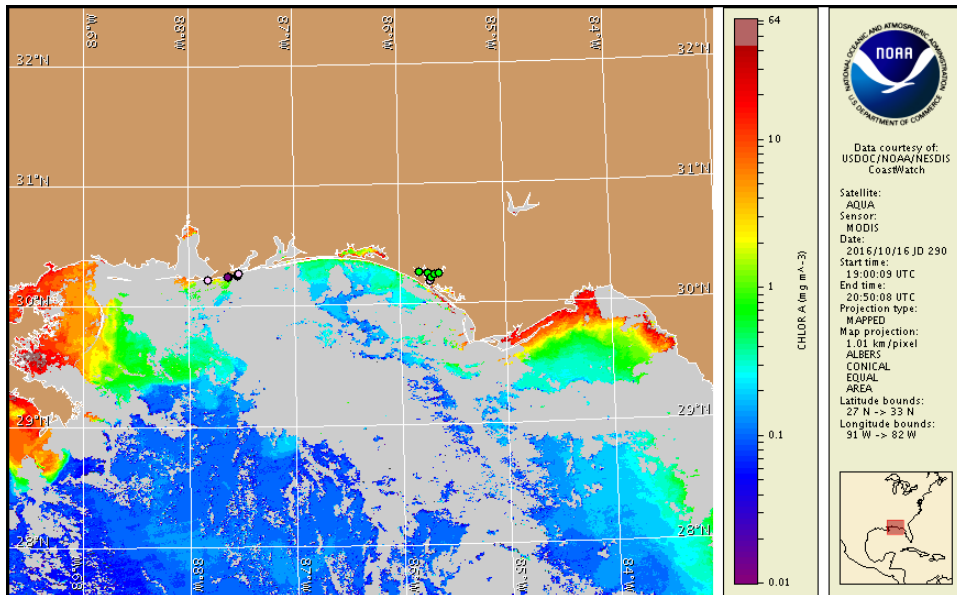
Monday, 17 October 2016

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Thursday, October 13, 2016



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from October 7 to 14: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

[http://tidesandcurrents.noaa.gov/hab/hab\\_publication/habfs\\_bulletin\\_guide.pdf](http://tidesandcurrents.noaa.gov/hab/hab_publication/habfs_bulletin_guide.pdf)

Detailed sample information for Florida can be obtained through FWC Fish and Wildlife Research Institute at:

<http://myfwc.com/redtidestatus>

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit at: <http://tidesandcurrents.noaa.gov/hab/bulletins.html>

## Conditions Report

Not present to very low concentrations of *Karenia brevis* (commonly known as Florida red tide) are present alongshore Baldwin County, Alabama. No respiratory irritation is expected alongshore eastern Alabama Monday, October 17 through Thursday, October 20.

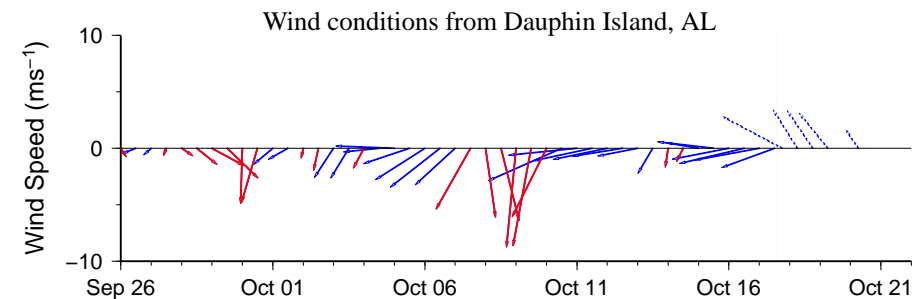
Check [http://tidesandcurrents.noaa.gov/hab/beach\\_conditions.html](http://tidesandcurrents.noaa.gov/hab/beach_conditions.html) for recent, local observations.

## Analysis

Samples collected alongshore Baldwin County in Alabama indicate not present to 'very low a' concentrations of *Karenia brevis* from Alabama Point, west to Gulf State Park (ADPH; 10/7). There are currently no reports of dead fish, discolored water, or respiratory irritation.

Recent ensemble imagery (MODIS Aqua, 10/16), is mostly obscured by clouds, limiting analysis. In ensemble imagery from October 13 (not shown), no features of chlorophyll with the optical characteristics of *K. brevis* were visible alongshore Baldwin County, Alabama.

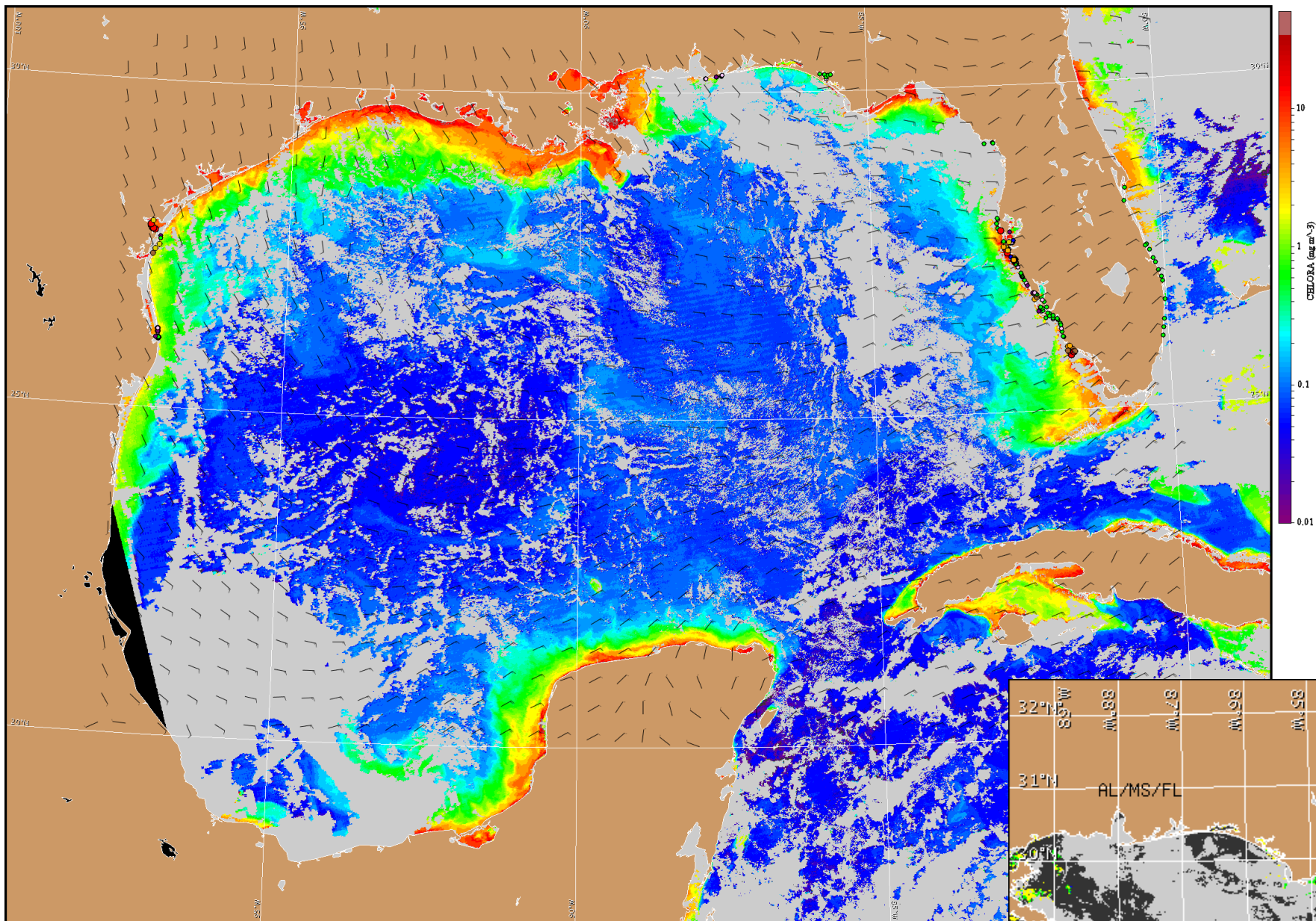
Keeney, Davis



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

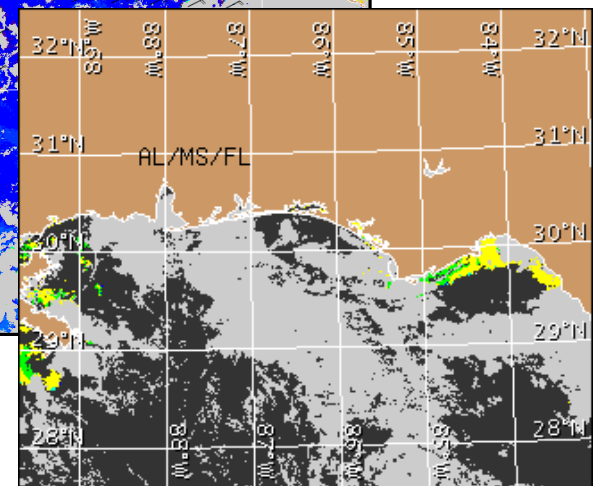
## Wind Analysis

**Gulf Shores - Alabama:** East winds (10-15kn, 5-10m/s) today through Wednesday night. Northeast winds (5-10kn, 3-5m/s) Thursday becoming northwest (10kn, 5m/s) in the evening.



Satellite chlorophyll image and forecast winds for October 18, 2016 06Z with points representing cell concentration sampling data from October 7 to 14: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

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Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).